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BRIEF DESCRIPTION OF THE DRAWINGS

The invention will now be described in greater detail with reference to the drawings wherein:

Figure 1 is a simplified phase diagram showing the variable parameter P plotted against the temperature θ .

Figure 2 is another phase diagram showing the variable parameter P plotted against the temperature $\boldsymbol{\theta}$.

Figure 3 is another phase diagram showing the concentration of the water phase plotted against the temperature $\boldsymbol{\theta}$.

Figure 4 is another phase diagram showing m plotted against the temperature θ .

IN THE CLAIMS:

Cancel all of the claims in the application and substitute the following new claims:

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--4.

An oil-in-water (O/W) emulsion comprising the following components:

a) an aqueous phase;



b) an oil phase;

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- c) one or more emulsifiers A, the lipophilicity of which emulsifiers A depend on the pH such that the lipophilicity is increased or decreased by raising or lowering the pH, it being unimportant whether an increase or decrease in lipophilicity is brought about by raising or lowering the pH; and
- d) an amount of dihydroxyacetone effective to tan skin. --
- --5. The O/W emulsion according to claim 4, which further comprises one or more substances which are soluble or dispersible in the aqueous phase. --
- ——6. The O/W emulsion according to claim 4, which further comprises one or more substances which are soluble or dispersible in the oil phase. ——
- --7. The O/W emulsion according to claim 4, which further comprises one or more water-in-oil (W/O) emulsifiers. --
 - --8. The O/W emulsion according to claim 4, wherein said one or more

emulsifiers A are present in said emulsion in a concentration of 0.01-20% by weight based on the total weight of the emulsion. --

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- --9. The O/W emulsion according to claim 8, wherein said one or more emulsifiers A are present in said emulsion in a concentration of 0.05-10% by weight based on the total weight of the emulsion. --
- --10. The O/W emulsion according to claim 9, wherein said one or more emulsifiers A are present in said emulsion in a concentration of 0.1-5% by weight based on the total weight of the emulsion. --
- --11. The O/W emulsion according to claim 4, wherein the dihydroxyacetone is present in said emulsion in a concentration of 0.1-10% by weight based on the total weight of the emulsion. --
- --12. The O/W emulsion according to claim 11, wherein the dihydroxyacetone is present in said emulsion in a concentration of 0.5-6% by weight based on the total weight of the emulsion. --
 - --13. The O/W emulsion according to claim 4, wherein the lipophilicity of at

CONT A2 least one of said one or more emulsifiers A depends on temperature in addition to pH, so that the lipophilicity thereof increases with increasing temperature and the hydrophilicity thereof increases with decreasing temperature. —

- --14. An oil-in-water (O/W) microemulsion comprising the following components:
 - a) an aqueous phase;
 - b) an oil phase;
 - c) one or more emulsifiers A, the lipophilicity of which emulsifiers A depend on the pH such that the lipophilicity is increased or decreased by raising or lowering the pH, it being unimportant whether an increase or decrease in lipophilicity is brought about by raising or lowering the pH; and
 - d) an amount of dihydroxyacetone effective to tan skin. --
 - --15. The O/W microemulsion according to claim 14, which further comprises



one or more substances which are soluble or dispersible in the aqueous phase. --

cont

- --16. The O/W microemulsion according to claim 14, which further comprises one or more substances which are soluble or dispersible in the oil phase. --
- --17. The O/W microemulsion according to claim 14, which further comprises one or more water-in-oil (W/O) emulsifiers. --
- --18. The O/W microemulsion according to claim 14, wherein said one or more emulsifiers A are present in said microemulsion in a concentration of 0.01-20% by weight based on the total weight of the microemulsion. --
- --19. The O/W microemulsion according to claim 18, wherein said one or more emulsifiers A are present in said microemulsion in a concentration of 0.05-10% by weight based on the total weight of the microemulsion. --
- --20. The O/W microemulsion according to claim 19, wherein said one or more emulsifiers A are present in said microemulsion in a concentration of 0.1-5% by weight based on the total weight of the microemulsion. --

- --21. The O/W microemulsion according to claim 14, wherein the dihydroxyacetone is present in said microemulsion in a concentration of 0.1-10% by weight based on the total weight of the microemulsion. --
 - --22. The O/W microemulsion according to claim 21, wherein the
 dihydroxyacetone is present in said microemulsion in a concentration of 0.5-6% by weight based
 on the total weight of the microemulsion. --
 - --23. The O/W microemulsion according to claim 14, wherein the lipophilicity of at least one of said one or more emulsifiers A depends on temperature in addition to pH, so that the lipophilicity thereof increases with increasing temperature and the hydrophilicity thereof increases with decreasing temperature. --
 - A process for preparing an emulsion according to claim 4, said process
 comprising:
 - a) combining components a)-d) to form a mixture;
 - b) manipulating the pH to bring the pH to a value at which a phase inversion is possible for the mixture;